L 33467-66 Edf(1)/T ACC NR. AP6029184 SOURCE CODE: UR/0016/66/000/005/0014/0017 AUTHOR: Volkeva, L. A.; Yushkin, G. V. ORG: Orenburg Oblast Sanitary-Epidemiological Station (Orenburgskaya oblastnaya sanitarno-epidemiologisheskaya stantsiya) TITLE: Tularenia in Orenburgskaya Oblast, I. SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1966, 14-17 TOPIC TAGS: tularemia, epidemiology, pathology, rodent, disease incidence ABSTRACT: On the basis of a study conducted between 1960 and 1962, the authors concluded that the boundaries of the natural focus of tularemia in Orenburgskaya Oblast (a floodplain swamp) have tended to expand since the disease was first reported in this area in 1928. In 1960, six cultures of F. tularensis were isolated from Arvicola terrestris L., Cricetus cricetus L., Apodemus sylvaticus, and Citellus maximum. The number of rodents caught in enzootic and nonenzootic regions was about the same, but the tularemia pathogen was not isolated from any of the rodents caught in the nonenzootic regions. The pathological changes characteristic of tularenia were found mainly in the water voles, e.g., enlargement of the lymph nodes of the liver and marked splenomegaly. Orig. art. has: 2 tables. [JPRS: 36,932] SUB CODE: 06 / SUBM DATE: 15Jun64 / ORIG REF: 002 Card 1/1/11/P 616.981.455-036.21(470.56)

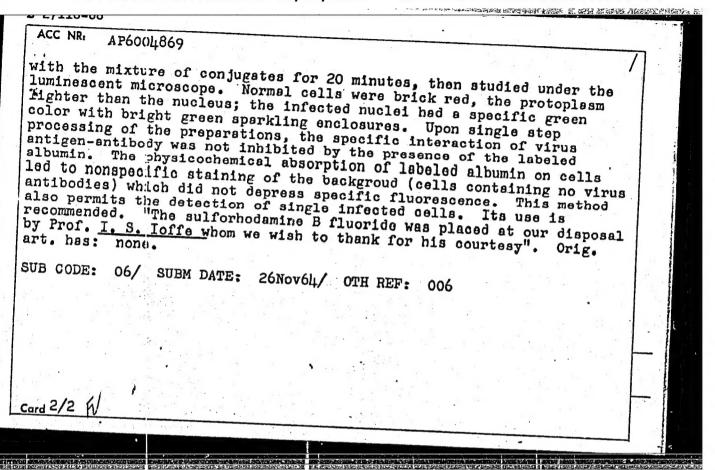
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V :	AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.; Rudakov, A. F.; Pyrkov, L. M.; Frenkel', S. Ya
	Rudakov, A. F.; Pyrkov, L. M.; Frenkel', S. 14
	ORG: IVS AN SISSR
	TITLE: Correlation of structural and mechanical characteristics of polyvinyl alcohol fibers. Investigation of supermolecular arrangement polyvinyl alcohol fibers and means of increasing their strength.
	polyvinyl alcohol fibers of increasing their strength of in chemical fibers and means of increasing their strength
	in chemical -10010
	SOURCE: Khimicheskiye volokna, no. 6, 1965, 22-26
	TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure,
	TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure, the synthetic fiber, polymer structure, of polyvinyl alcohol
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ACC NR: AP60C4869 (N)	SOURCE CODE:	UR/0402/65/000/	005/0613/0614	70
AUTHOR: Noskov, F. S.; Bold	Dasov, V. K.;	Gol'din, R, B.;	. 33	1
ORG: <u>Military Medical Academy i</u> Leningred (Voyennomeditsins)			32 - 8	
TITLE: Contrast medium for in cell cultures of guinea	immunofluores oig kidneys	cent detection	f adenoviruses	b
SOURCE: Voprosy virusologia	l, no. 5, 1965	, 613-614		
TOPIC TAGS: virus disease,				*.
ABSTRACT: Bovine serum albuwas tested as a contrast med pig kidney cells stained with exposed to the specific rabbelluorescein isothicoyenate a protein. The phosphate buffwith freshly synthesized sulmedium, then purified. The	dium for adeover the fluorescein oit immune gloot a rate of lefered serum all forhodemine B	irus type 4 infe. The infected bulin, then adde mg fluorochrom bumin was first fluoride in an	cted guinea cells were d with e per 1 g conjugated alkaline	3-2
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VOLKOVA, L.A.

PHASE I BOOK EXPLOITATION

1043

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Proizvodstvo stali (Steel Production) Moscov, Mashgiz, 1958. 154 p. (Series: Its Sbornik statey, vyp. 3) 4,000 copies printed.

Ed.: Zamotayev, S.P., Engineer; Tech. Ed.: Dugina, N.A.; Executive Ed. (Ural-Siberian Division, Mashgiz): Kaletina, A.V., Engineer.

PURPOSE: This book, published on the 25th anniversary of the Uralmashzavod (Ural Heavy Machine-building Plant imeni S. Ordzhonikidze) is intended for engineers, technicians and scientific workers concerned with the production of steel.

COVERAGE: The basic stages in the development of steel making during the 25 years of the existence of the Ural Heavy Machine-building Plant are described. The following achievements in the field of steel making technology are described: vacuum pouring, resulting in an improved quality of steel; production of ingots in a variety of special shapes; steel making in open-hearth and electric furnaces. Research work done by the central laboratory of the plant, including a study of the causes of the formation of internal cracks in heat-resistant steel ingots

Card 1/3

	Steel Production 1043	
	and a study of nonmetallic inclusions, macrostructure and intracrystalline liquation in large ingots, is also discussed.	
•	TABLE OF CONTENTS:	
	Zamotayev, S.P Production of Steel at the Ural Heavy Machine Building Plant Zamotayev, S.P.; Bogorodskiy, A.L.; and Mikul'chik, A.V Improvement of the	3
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	Chromium-nickel-molybdenum Steel	116
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Steel Production	10/13
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	그런 공료되는 시간에 하면 얼마를 하지 않는다.

VOLKOVA, Lyudmila Andreyevna; VOLFYANSKIY, L.M., inzh., red.;
DUGINA, N.A., tekhn. red.

[Metal melting in induction furnaces] Playka metalla v induktsionnykh pechakh. Pod red. L.M.Volpianskogo. Moskva, Mashgiz, 1961. 59 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.17) (MIRA 15:3) (Electric furnaces)

(Foundries—Equipment and supplies)

RLENKOVA, N.I.; KULAKOVA, O.M.; VOLKOVA, L.A.

Determination of the density and other properties of cellulose fibers characteristic of their structure in relation to reactivity. Zhur-prikl.khim. 36 no.1:166-176 Ja '63. (MIRA 16:5)

1. Institut vysokomolekulyarnykh sowedineniy AN SSSR. (Cellulose)

SMIRNOVA, A.V.; KRASNOVA, A.K.; VOLKOVA, L.A.; MAKAROVA, V.N.

Methods for the exposure and determination of the grain size of austenite in steel. Standartizatsiia 27 no.5:23-28 My '63. (MIRA 16:6)

(Austenite-Metallography)

PETROPAVIOUSKIY, G.A.; VASILIYEVA, G.G.; VOLKOVA, L.A.

Determination of structure changes in cellulose at the initial esterification stages by X-ray diffraction analysis. Znur. prikl. khim. 37 no.9:2008-2016 S 164.

(MIRA 17:10)

KHENKOVA, M.1.; MELAKOVA, O.M.; VOLKOVA, L.A.

Stricture characteristics of weakly hydroxyethylated cellulose fibers as related to their night reactivity. Thur. prikl. Film. 37 no.9:2023-2028 S *64.

1. Institut vysokomolekulyarnykh soyedinenty AN SCSk.

SOROKIN, A.Ya.; ANDREYEVA, N.A.; YOLKOVA, L.A.; KCL'TSOV, A.1.; FUDAKCV, A.P.; PYRKOV, L.M.; FRENKEL', S.Ya.

Correlation of the structural and mechanical characteristics of polyvinyl alcohol fibers. Khim. volok. no.6:22-26 *65.
(MHRA 18:12)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Submitted June 9, 1964.

KLENKOVA, N.I.; KULAKOVA, O.M.; MATVEYEVA, N.A.; VOLKOVA, L.A.;
15 IMARA, N.D.

Effect of methylamine in various media on the structure and reactivity of cotton fibers. Zhur. prikl. khim. 38 no.5:1077-1.084 My *65. (MIRA 18:11)

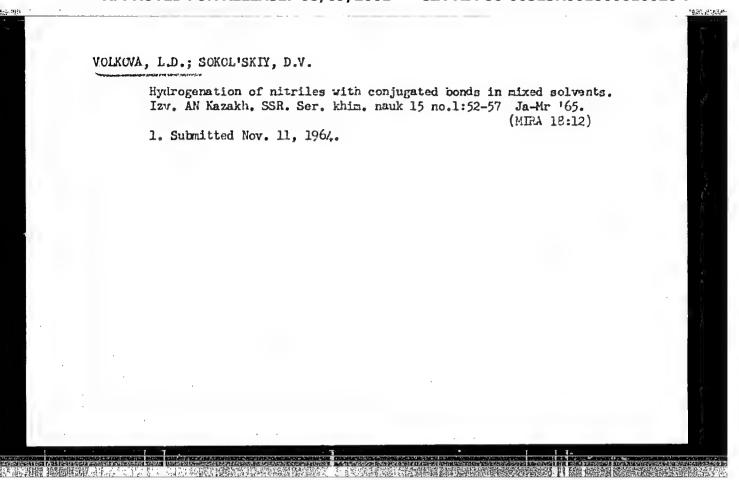
1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

SOKOL'SKIY, D.V.; VOLKOVA, L.D.

Hydrogenation of mesityl oxide in mixed solvents. Izv.AN Kazakh SR. Ser.tekh.i khim.nauk no.1:3-7.163. (MIRA 17:5)

SOKOL'SKIY, D.V.; VOLKOVA, L.P.

Hydrogenation of acrylonitrile in mixed solvents on a Niskeletal catalyst. Izv. AN Kazakh. SSR. Ser. khim. nauk 14 no.1:69-74 Ja-Mr '64. (MIRA 18:3)



"APPROVED FOR RELEASE: 08/09/2001

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100903-66 EWT(m)/EMA(d)/EWP(j)/T RM

ACCESSION NR: AP5020205

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AUTHORS: Moskvina, G. I. (Engineer); Volkova, L. D. (Engineer)

TITLE: Powdery cleansing agents on the basis of alkylsulfates, obtained by direct sulfation of nonsaponifiables - II alcohols. Communication 3

SOURCE: Maslozhirovaya promyshlennost', no. 8, 1965, 14-17

TOPIC TAGS: detergent, alkylsulfate, sulfation, cleaning compound

ABSTRACT: In their previous paper (Maslozhirovaya promyshlennost', 1965, 6), the authors noted the dependence of properties of the nonsaponifiables-II alcohols on the boiling point. In this present work, the effect of inorganic salts on the cleansing ability and surface-active properties of alkylsulfates derived from the nonsaponifiable-II fraction of alcohols boiling at 350, 375, and 4000 was determined. The composition of the cleansing agents studied is given in Table 1 on the Enclosure. The cleansing ability was tested on wool, silk, capron, and cotton fabrics, and was compared with the performance of detergents "Novost'" and "Progress." It was found that cleansing ability increases with the boiling point of the nonsaponifiable-II alcohol fraction. Orig. art. has: 5 tables.

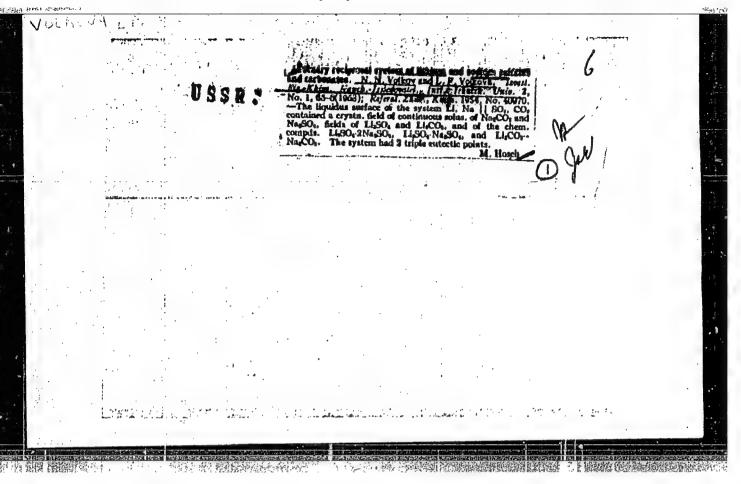
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Win/HM Pc-li/Pr-li/Ps-li ENT(m)/EPF(c)/EPR/LWP(j)/T/EWA(c) UR/0360/65/000/001/0052/0057 ACCESSION HP: AP5012828 AUTHOR: Yolkova, L. D.; Sokol'skiy, D. V. TITLE: Hydrogenation of nitriles with conjugated bonds in mixed solvents SOURCE: IN KazSSR. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1965, 52-57 TOPIC TAGS: methacrylonitrile, acrylonitrile, hydrogenation, catalysis ABSTRACT: The authors studied the hydrogenation of methacrylonitrile and acrylonitrile on Pd and Pt black, and of methacrylonitrile on Raney nickel in n-butyl alcohol, dimethylformamide, and mixtures of the two. Three to five portions of the compound studied were hydrogenated in succession on the same batch of catalyst. Kinetic and potentiometric curves show that the hydrogenation of mathacrylonitrile in n-butyl alcohol proceeds at a gradually decreasing rate, and the reaction is firstorder. In dimethylformamide, the reaction is considerably slower, and the reaction order changes. In mixtures, the rate of hydrogenation decreases with rising dimethylformamide content; this is thought to be caused by the polar properties of this solvent. The activation energy of the hydrogenation-increases from n-butyl alcohol to dimethylformamide. On Pd black, both nitriles are converted to saturated Card 1/2

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itriles via a zero-order re	action. The effect of dimethylform	amide is the same as
n the case of nickel. Plat	inum was the least selective hydrogen	enation catalyst for
ion of unsaturated nitriles	mitrile. Thus, the rate and selection of the fatty acid series are appreciately	ciably affected by
he catalyst, nature of the as: 6 figures and 3 tables	solvent used, and structure of the	nitriles. Orig. art.
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SOV/137-58-8-16613

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 53 (USSR)

AUTHORS: Volkova, L., Dausheva, M.

TITLE: Cementation of Certain Metals from Their Carbonates by a

Sodium Amalgam (Tsementatsiya nekotorykh metallov iz ikh

karbonatov amal'gamoy natriya)

PERIODICAL: Byul. nauchn. stud. o-va. Kazakhsk. un-t, 1957, Nr 7,

pp 14-16

ABSTRACT: Qualitative experiments were made in the displacement of a

number of metals from their carbonates by an Na amalgam (A). The experiments were run as follows: 5 cc 1% Na A was shaken in a separating funnel for 5 min with suspensions of 0.5 milliequivalents of carbonates of various metals in 5 cc of distilled water. The A was then separated from the solution. The solution was examined for content of the corresponding cation. The A was washed with water and treated successively by HCl and a solution of mercurous nitrate, the metal going into the A being separated out of solution. In terms of their ratio to the Na A,

the metal carbonates may be divided into 3 groups; viz.,

Card 1/2 a) carbonates the metals of which undergo complete

SOV/137-58-8-16613

Cementation of Certain Metals from Their Carbonates (cont.)

cementation with formation of A, these being the carbonates of Ag, Cu, Pb, and Zn; b) carbonates the metals of which undergo partial cementation, these being the carbonates of Ni, Co, and Mn, and c) carbonates the metals of which do not undergo cementation, these being the carbonates of Mg, Ba, Sr, and Ca.

G.S.

1. Metals-Separation 2. Sodium alloys-Chemical reactions 3. Metal carbonates-Chemical reactions

Card 2/2

VOLKOVA, L.F. Sulfate-carbonate exchange in alkali metal fusions. Izv. Sib. otd. AN SSSR no.3:60-64 '58. (MIRA 11:8) 1. Irkutskiy sel'skokhozyaystvennyy institut. (Alkali metal sulfates) (Alkali metal carbonates) (Fusion)

VOLKOVA, L.F.

Ternary system of lithium, sodium and potassium carbonates. Izv. Sib. otd. AN SSSR no.7:33-35 '58. (MIRA 11:9)

1.Irkutskiy sel'skokhosyaystvennyy institut.

(Alkali metal carbonates) (Fusion)

ACCESSION MIL: APholo878

\$/0210/63/000/011/0106/0113

AUTHORS: Poplavskaya, L. N.; Volkova, L. P.; Zhuk, F. D.

TITLE: Seismicity of the Far East for 1961

SOURCE: Geologiya i geofizika, no. 11, 1963, 106-113

TOPIC TAGS: seismicity, Far East, epicenter, deep focus, earthquake, deep focus earthquake

ABSTRACT: This paper is a summary of instrumental and macroseismic data for earthquakes in the Far East during 1961. Epicenters were located by the methods considered most effective for that region: 1 - average lines, 2 - equal distances from stations, 3 - intersections for t_p, and t_l - master curves for isochrons of t_p and S-P. The first was most commonly used in combination with the third. The accuracy of locating epicenters was generally within 20-25 km. The epicenter of deep-focus earthquakes was easily located by one of the above methods. The depth of focus was generally found by difference in the S-P and sP-P phases, but difficulties were encountered because, firstly, the S-P travel-time curves for the depth 20-50 km within the epicentral interval 1.5-15° were difficult to distinguish and,

Card 1/2

ACCESSION NR: AP4010878

secondly, the separation of the sP phase on seismograms of Kurile-Kamchatka earthquakes was frequently impossible. Depth was therefore generally determined by data from near (up to 100 km) and distant (over 1500 km) stations. Euring the indicated period (1961), 6 earthquakes of group II were recorded ($7\frac{1}{2} > M > 6\frac{1}{2}$), 18 of group III ($6\frac{1}{2} > M > 6\frac{1}{2}$), 86 of group IV ($5\frac{1}{4} > M > 6\frac{1}{4}$), and 132 of group V (K < 4). Scismicity for 1961 in the Kamchatka region was considerably lower than in preceding years. All earthquakes with a scale reading greater than 5 are shown in a table. The two largest were: 1 - the earthquake of 12 February, with M = 7, on the island of Shikotan; 80 aftershocks with $3\frac{1}{2} < M < 6$ were recorded within 21 hours after the main shock; and 2 - the earthquake of 11 August, 50 km south of Nemuro, with M = 6 3/4. The authors are deeply grateful to R. 2. Tarakanov and S. L. Solov'yev for valuable suggestions during preparation of this paper. Orig. art. has: 6 figures, 4 tables, and 2 formulas.

ASCOCIATION: Sakhalinskiy kompleksnyty nauchno-issledovatel'skiy institut Sibirskogo otdeleniya AN SSSR, pos. Novo-Aleksandrovsk (Sakhalin Joint Scientific Research Institute of the Siberian Department AN SSSR)

SUBMITTED: 11Dec62

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: AS Card 2/2 NO REF SOV: 009

OTHER: 002

26519 5/065/61/000/008/002/009 E030/E135

11.0140

Masagutov, R.M., Berg, G.A., and Volkova, L.I.

AUTHORS:

The effect of degree of hydrofining feedstock for

TITLES

catalytic cracking PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No.8,

pp. 8-13

This experimental investigation was to improve the yield and quality on cat. cracking high-sulphur, high-coking crudes such as Chekmagush and Arlan; for such crudes, hydrofizing is an obvious approach. Work was on the laboratory scale. The hydrofiner unit held 200 ml aluminocobalt molybdate catalyst, and the cat. cracker used alumino-silicate catalyst, of activity 32-33 points. Cat. cracker space velocities were 0.7, 1.0 or 1.5 per hour, and the cycle time 30 minutes. For hydrofining, optimum conditions were virtually independent of space velocity and consisted of 50 kg/cm² gas pressure and 370°C temperature. Comparing hydrofined and unhydrofined material under cracking conditions with identical coke formation (4.5% weight), the output of benzine fraction was increased from 36 to 61.5%. Card 1/2

26519

S/065/61/000/008/002/009 E030/E135

The effect of degree of hydrofining..

In order to obtain 1% sulphur diesel fuel from Chekmagush feed, it was necessary to hydrofine at 370°C,50 kg/cm² pressure, and 0.8-1.0 per hour space velocity.

There are 7 figures and 2 tables, and 22 references: 10 Soviet and 12 non-Soviet. The English-language references read as follows:

12 non-Soviet. The English-language references read as follows:
Ref.13: Viland, C.K. Petroleum Refiner, 36, No.3, 197-220, 1958,
Ref.14: Samnelson, G.I., Woelflin, W. Petr. Ref., 38, No.3, 211-223,
1959; Ref.16: Abbott, M.D., Archibald, R.C., Dorn, R.W. Oil and Gas
J., 56, No.20, 144, 1958; Williams, C.C., Abbott, M.D. Petrol. Eng.
32, No.5, 25-28, 1960.

ASSOCIATION: BashNII NP

Card 2/2

ANDREYEV, D.Ya.; BRENTS, A.D.; VOLKOVA, I.I.; MAKEAVEYEV, M.V.

E minomic effectiveness of capital investments in the production, gathering, and refinement of petroleum gas. Gaz. delo no.6:30-33 (MIRA 18:8)

1. Moskovskiy ordena frudovogo Krasnogo Znameni institut neftehhimicheskoy i gazovoy premyshlennosti im. akademika Gubkina.

CC NR: AP60		SOURCE CODE: UR/0286/65	-hallnikova. T. P. i
INVENTOR: VO	lkova, L. I.; Zaitova	Pryakhina, M. S.; Petrov, V.	N.; Rachkovskiy, E.
iazarova, L.	Yu.; Nazarov, V. I.;	ryaknina, na rikhanovskaya, S. G.	32
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SUURCE: 27		-Alut alcohol	
TOPIC TAGS:	catalysis, butamol,	ethyl alcohol	
			or producing normal
ABSTRACT:	This Author's Certific	cate introduces: 1. A method for alcohol on a catalyst. The process of aluminum oxide.	ocess is done in a
butanol by	synthesis from ethyl c	alcohol on a catalyst. The procession of aluminum oxide of an alkali metal. 2. A more	magnesium oxios
single stage	by using a catalyst	consisting of aluminum oxide, e of an alkali metal. 2. A mx	dirication of the
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method	in which the esium oxide,	catalyst con from 0 to 50	tains from 3 % silicon 01	cide and from	0 to 5 % 0	Fasalt o	r Oxide
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5/744/62/000/005/002/003 1060/1260

Masagutov, R.M., Berg, G.A., and Volkova, L.I. AUTHORS:

Preliminary purification by hydrogenation of crude oils treated TITLE:

by catalytic cracking

Ufa. Bashkirskiy nauchno-issledovatel'skiy institut po SOURCE:

perorabotke nefti. Trudy. no. 5. 1962. Sernistyye nefti

i produkty ikh perorabetki. 77-88 ·

The process of catalytic cracking is particularly sensitive to impurities contained in crude oils, like nitrogen and various metals, which tend TEXT: to poison the catalyst, with a consequent increase of the amount of coke at the

expense of lighter fractions. The author concludes that the best method of purification is by

hydrogenation, apart from the drawback of requiring large amounts of hydrogen, depending on the quantities of crude treated and the intensity of the hydro-

Experiments by the author give the optimum conditions for purifigenation process. cation prior to catalytic cracking as: pressure 50 atm., temperature 370°C,

Card 1/2

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

SERVER STREET A STREET STREET IN THE STREET STREET

Proliminary purification...

S/744/62/000/005/002/003 1060/1260

circulation of hydrogen 800 ml/l of crude oil, volumetric velocity of crude supply from 0.5 to 10 hrs, I depending on the required intensity of hydrogeneration.

There are 8 figures and 2 tables. .

Gevel 3/12

MASAGUTOV, R.M.; BERG, G.A.; VOLKOVA, L.I.; PLOTNIKOVA, L.I.; PECHNIKOVA, T.N.; ZAGRYADSKAYA, L.M.; MIRONOV, A.A.

Combining the preparation of raw stocks for catalytic cracking with the production of neutralized black sludge. Trudy Bash NIINP no.5:88-93 162. (MIRA 17:10)

MASAGUNOV, R.M.; BERG, G.A.; VOLKOVA, L.I.

Effect of the depth of stock hydrofining on the results of catalytic cracking. Khim.i tekh.topl.i masel 6 no.8:8-13 Ag '61. (MIRA 14:8)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti.

(Petroleum-Refining) (Cracking process)

EYGENSON, A.S.; MASAGUTOV, R.M.; ZAITOVA, A. Ya.; VOLKOVA, L.I.; BERG, G.A.;

Effect of some physicochemical properties of raw stock on catalytic cracking indices. Trudy. Bash NII NP no.3:19-32

(Cracking process)

(MIRA 14:4)

MASHTAKOV, S.M.; LEDOVSKIY, S.Ya.; VOLKOVA, L.I.

Experiments in studying the physiological action of derivatives of 3-amino-1,2,4-triazole. Dokl.AN BSSR 3 no.10:422-425 (MIRA 13:2)

1. Predstavleno akademikom AN BSSR I.D.Yurkevichem. (Triazole--Physiological effect)

VOLKOUA, L.I.

PHASE I BOOK EXPLOIDATION

SOV/3012

5.3 Morskoy gidrofizicheskiy institut Akademiya nauk SSSR.

Fizika morya (Physics of the Sea) Moscow, Izd-vo AN SSSR, 1959. 95 p. (Series: Its: Trudy, Vol 17) Errata slip inserted. 1,300 copies printed.

Ed.: A. A. Ivanov, Doctor of Physical and Mathematical Sciences; Ed. of Publishing House: N. D. Yershova; Tech. Ed.: I. N.

PURPOSE: This issue of the Institute's Transactions is intended for oceanographers, hydrographers, and geophysicists.

COVERAGE: This collection of articles treats problems in physics of the sea. Individual papers discuss wave and tide hydrodynamics, free surface perturbations, the Black Sea tsunami of 1927, and the characteristics of the vertical stability of water masses in the Iceland-Faroe Islands-Great Britain area. A paper by I. I. Stas' proposes solving the problem of the decreasing level of the Caspian Sea by diverting waters of the Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

nysics of the Sea (Cont.)	
Sea of Azov by canal through the Kumo-Manychskaya v References accompany individual articles.	alley.
ABLE OF CONTENTS: ekerzh-Zen'kovich, Ya. I. Zonal Standing Waves of Fini n the Surface of a Spherical Layer of Liquid	te Amplitude
oyt, S. S. Waves on the Boundary Surface Between Two large From a Shifting Periodic System of Pressures	Edgulds 33
Tolkova, I. I. Tides in a Channel Encircling the Glob	e 41
Sekerzh-Zen'kovich, T. Ya. Distribution of Initial Personal Sekerz	e of a 48
Grigorash, Z. K. Black Sea Tsunami in the Year 1927, on Mareographic Recordings	Based 59
Card 2/3	

	nt.)	SOV/3012	
Stas', I. I. The Problem of Maintaining a Constant Level in the Campian Sea		68	
Vladimirtsev, Yu. A., Characteristics of the the Northeastern Atlan	Vertical Stability	of Water Masses	1n
AVAILABLE: Library of	Congress		
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Card 3/3			1-28-60

MASAGUTOV, R.M.; BERG, G.A.; VOLKOVA, L.T.

Preparing raw stocks for catalytic cracking by hydropurification.

Trudy Bash NIHP no.5:77-28 162.

(MIRA 17:10)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

VOLKOVA, L.I.; SOBOLEVA, A.M.; ADAMOVA, T.K.

Raising geese in Latvia. Ptitsevodstvo 9 no.2:16-17 F '59. (MIRA 12:3)

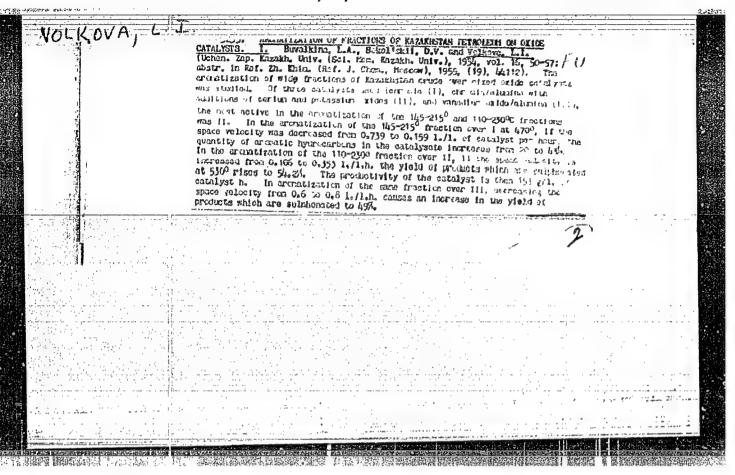
1.Direktor Rezeknenskoy inkubatorno-ptitsevodcheskoy stantsii (for Volkova). 2.Direktor Daugavpilsskoy inkubatorno-ptitsevodcheskoy stantsii (for Soboleva). 3.Glavnyy zooteknik respublikanskoy kontory inkubatorno-ptitsevodcheskoy stantsii (for Adamova).

(Iatvia-Geese)

MASAGUTOV, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, H.G.; GILYAZEV, N.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

Effect of temperature during calcination on the mechanical strength of catalysts. Khim. i tekh.topl. i masel 4 no.1: 69-71 Ja 159. (MIRA 12:1)

1. Bashkirskiy nauchno-issledovatel skiy institut neftyanoy promyshlennosti. (Catalysts)



BITYUKOV, Il'ya Il'ich; TALYZOV, Aleksandr Fedorovich; TSERAPIYER, L.S., inzh., red.; VOLKOVA, L.I., red.; VELITSYN, B.L., tekhn. red.

[Metal latticed formwork for solid concrete]Metallicheskaia setchataia opalubka dlia massivnogo betona. Moskva, Orgenergstroi, 1961. 47 p. (MIRA 15:8) (Concrete construction—Formwork)

MASAGUTO7, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

Effect of the firing temperature of a catalyst during preparation on its mechanical strength. Trudy Bash NII NP no.3:166-170. 60. (MIRA 14:4)

(Catalysis) (Gracking process)

L 12293-63 EFF(c)/EWT(m)/BDS AFFTC/APGC Pr-4 EN/MN S/081/63/000/005/050/075 43

AUTHOR: Masagutov, R. M., Berg, G. A. and Volkova, L. I.

CF/

TITLE: Prepar

Preparation of the catalytic cracking raw materials by the

hydrogenation refining method

PERIODICAL!

Referativnyy zhurnal, Khimiya, no. 5, 1963, 499, abstract 5P146 (Tr. Bashkirsk, n-i. in-t. po pererabotke nefti, 1962, no. 5, 77 - 88)

TEXT: After a review of literature the data are presented from experimental tests in the indicated field, as a result of which there were established the optimum conditions for hydrogenation refining of raw material for catalytic cracking: pressure of 50 atm, temp. 370° C, circulation of H₂ 800 catalytic cracking: pressure of feeding of the raw material 0.5 - 10 ml/l of raw material, volume speed of feeding of the raw material 0.5 - 10 hours-1, depending on the desired degree of refining. It was shown that, under catalytic cracking of refined and unrefined gas oils to an identical under catalytic cracking (output of coke 4.5 % by weight) the output of gasoline from degree of cracking (output of coke 4.5 % by weight) the output of gasoline from refined gas oil is 32 - 61.5 % greater than from unrefined, depending on the volume speed of hydrogen refining. It washshown that to obtain fractions of

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

L 12293-63
Preparation of the catalytic

\$/081/63/000/005/050/075

diesel fuel with content of up to 1 % S from gas oil of Chekmagush petroleum it is necessary to subject the last to refining at volume speed of 0.8 - 1 hour-1. Hydrogenation of raw material of catalytic cracking leads to an improvement in the material balance of catalytic cracking and to an increase in quality of products. Also, it decreases the contamination of the catalyst by elimination of metals and nitrogen compounds and reduces the corrosion of instruments, as well as improving the conditions for exploitation of the plant by elimination of S compounds. The economic reports indicate that preliminary preparation of raw material for cracking by the hydrogen refining method costs considerably less than hydrogen refining of the catalytic cracking products. The bibliography contains 54 items. A. N.

[Abstractor's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

L 12294-63 EPF(c)/EWT(m)/BDS AFFTC/APGC Pr-4 EW/MN S/081/63/000/005/051/075 64

AUTHOR: Masagutov, R. M., Berg, G. A., Volkova, L. I., Plotnikova, L. I., Pechnikova, T. N. Zagryadskaya, L. M. and Mironov, A. A.

TITLE: Combinations of preparation of raw material for catalytic cracking and obtaining of neutralized contact catalyst

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 499, abstract 5P147 (Tr. Hashkirsk. n.-t, in-t. po pererabotke neft, 1962, no. 5, 88 - 93)

TEXT: At an experimental plant in 2 l capacity reactor in a mobile layer of bulbous alumosilicated catalyst (KT) at 450° C volume speeds of 0.7, 1.0 and 1.5 hours-1, circulation ratio (KT) 3:1 (index of activity of KT 32 - 33 points) experiments were conducted on cracking of purified (so-called "depleted") gas oils from a plant for producing neutralized contact catalyst (NChK) and extracted vacuum gas oil from a mixture of Shkapov and Romashkin petroleum. In the catalytic cracking of acid purified gas oil the extraction of coke is lower than in cracking of unrefined gas oils. Gas which forms in cracking of refined gas oil contains more propane-propylene and butane-butylene fractions and less

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

L 12294-63 Combinations of preparation

s/081/63/000/005/051/075

 H_2S . Gasoline, extracted in cracking of refined gas oil, contains a smaller amount of S compounds and is more stable during storage. As a result of cracking of refined gas oil a 30 - 40 \$ fraction of diesel fuel with content of $S \le 1$ \$ is extracted. The process is economical, which is indicated by calculations conducted by one of the Ufim oil refineriss. A. Nagatkina.

[Abstractor's note: Complete translation]

Card 2/2

YOLKOVA L.	M,	*		
Grandwakiy, F.L., Luk'yandw, 3.74., Spiekk, G.V. and Sirecands, I.G. Sirecands all-Union Conference on Gas Rapart an the Second All-Union Conference on Gas Radicentes Radicentes pp. 1359 - 1358 (1832) pp. 1359 - 1358 (1832) History of Righer Guestion and Moscow Stree Diversity. History of Righer Guestion and Moscow Stree Diversity. If was opened by the Chairman of the organisaty committee. History of Righer Guestion and Moscow Stree Diversity. If the sonference, a number of nursay papers were delivered the conference and number of nursay papers of ultra-bight the conference and number of nursay propers of ultra-bight the conference and number of nursay propers of ultra-bight the conference and number of nursay propers of ultra-bight the conference and number of nursay and and number number of nursay and number number of nursay and number	A survey of the Option and Sit, Frish is the appear by T.A. Fabrish; and Sit, Frish of Technology S. Brown of the Mancharett institute of Technology State and Some Institute of Technology State and Some Institute of the investigation of sationary and Some statement of the investigation of sationary and Some statement of the pitch in the institute for sationary Free season M.V. Federalm of the Journal of the Some statement of the Statement of the Statement of Some statement of the Statemen	sacif. Salebolk (Entern dermany) gave a generalized theory of all confidence was divided thro also services. Salebolk (Entern was preaded over by L.A. Sale and was served with the almostance of processes in gas disabarges, 1921-1911 (1921-1911) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921)	Results of the control of the Entite ten of the Entite ten of the control of the	1
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19.4-8-22/55, G.W. Conference on Gas 1959, Well W. W. E. W.	nd S.E. control of the control of th	see of the	Some of the control o	
SOV/101-4-8-22/5 Luk'yanov', 5-fu., 5-futk, ond All-Union Conference of elektrenthe, 1959, Wel 4, 328) as organised by the Ac.5c,	in the papers by T.A. Farthers and S.E. S. Brown of the fare and the farthers are farthers Bream of the fare and the farthers are fare and the far	erm Germany) gave a gener erman aves divided into a sementary forested in a sementary forested in anitied General of Enterpolation of Me and and Hydrogen of Me al obtanociation of Me ("Gallation of Me	Lines of Petestian and Argent. Allines of Petestian and Argent. Allines of Petestian and Argent. Allines of Petestian State. Signification of the Optical Purctions of the Edge of Medaltw Systam. For Medaltw Systam. Fo	
Granowakiy, T.L., Luk'yanow, 350//g Siretnak, T.G., Luk'yanow, 340//g Report as the Second All-Undon Redrectables 4 slektrenaka, pp 1359 - 1358 (USS) pp 1359 - 1358 (USS) History of Higher Educatione History of Higher Educations History of Higher Educations History of Higher Educations of the conference a number of the Antalogical Control of the Chalman of the conference a number of the Antalogical conference and the conference of the chalman of the ch	A second	Control of the contro	Lin. Villoy. "Referentive Exettes about the control of the control	
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VOLKOVA, L.M.

Disgnostic significance of disstsuris in acute pancreatitis [with summary in English, p.158], Vest.khir. 79 no.7:36-42 Jl '57.

(MIRA 10:10)

1. Is 2-y kafedry khirurgii (sav. - prof. 0.A.0omyskov leningradskogo gosudarstvennogo instituta usovernehastvovaniya vrachey imeni S.M.Kirovs i khirurgicheskogo otdeleniya bol'nitay im. Lenina (glavnyy vrach - V.S.Basumikhin)

(ANTLASES, in urine diastase in acute pancreatitis (Rus))

(PANCREATITE, urine in, disstase (Rus))

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

VO1 KOVA, L.119.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12289

Author

: Volkova, L.M.

Inst

: Mcscow State University, Moscow

Title

Secondary Electron Emission from Tungsten Carbide.

Orig Pub

: Rediotekhn. 1 elektronika, 1956, 1, No 4, 535-536

Abstract

An investigation was made of the secondary electron emission from tungsten carbide (W_2 C). A coating of W_2 C with addition of 64 Co, with a thickness of approximately 2 x 10-2 mm, was placed over a tantalum backing. Measurements were carried out with the spherical-capacitor method, and the working pressure in the instrument was 5 x 10-7 mm mercury. The dependence of the coefficient of secondary-electron emission, σ , on the energy of the primary electrons U_0 , and the distribution of the secondary electrons by

Card 1/2

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SOV/51-6-3-1/28

AUTHOR: Volkova, L.M.

TITLE:

Effective Cross-Sections of Excitation of Potassium Spectral Lines (Effektivnyye secheniya vozbuzhdeniya spektralinykh

liniy kaliya)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 3, pp 273-278 (USSR)

ABSTRACT: A Hanle-type tube with truncated-cone electrodes was used to study the dependence of the effective excitation crosssections on the incident electron beam energy for eleven lines of potassium lying in the region 4000 - 4300 1. The electron beams were monochromatic to within 1 eV. Potassium was purified by multiple sublimation. deposited in a branch tube and heated to 127.5°C, to produce a vapour pressure of 1.3 x 10⁻⁴ mm Hg. At this pressure the mean free path of 27 eV electrons is 21 cm. Such a long path ensured an absence of multiple collisions in the excitation region, which was only 0.8 cm long. The absence of multiple collisions was confirmed by the fact that all the Card 1/3 spark lines of potassium (cf. Figs.3-5) appeared first at

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7" SOV/51-6-3-1/28 Effective Cross-Sections of Excitation of Potassium Spectral Lines

electron beam energies equal to the sum of the ionization and excitation potentials. The arc lines (Fig.6) appeared when the electron energy was equal to the excitation potential. The absolute values of the excitation cross-sections for 60 eV electrons were found by comparison of the excited line density on a photographic record with the continuous spectrum of a tungsten lamp with known emission spectrum. These consections $(q_{1k}, in units of 10^{-19} cm^2)$ are given for eleven These crosspotassium lines in col.3 of a table on p 276. Figs.3-6 show the dependences of the excitation cross-section on the electron energy (in eV) for three spark lines at 41.86.23 R (Fig. 3), 4263.48 R (Fig. 4) and 4115 R (Fig. 5), as well as an arc doublet 4044.14/4047.20 & (Fig.6). lines were recorded photographically using an ISP-51 spectrograph, or photoelectrically using the same spectrograph and a PS-381 collimator. There are 6 figures, 1 table Card 2/3 and a PS-381 collimator.

SOV/51-6-3-1/28 Effective Cross-Sections of Excitation of Potassium Spectral Lines

and 7 references, of which 2 are Soviet, 4 English and 1 German.

SUBMITTED: March 3, 1958

Card 3/3

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

24 (7) AUTHOR:

Volkova, L. K.

SOY/48-23-5-8/25

TITLE:

The Effective Cross Sections of the Excitation of Some Spectral Lines of Petaggium and Argen

Spectral Lines of Potassium and Argon

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 8, pp 968 - 970 (USSR)

ABSTRACT:

In the present paper the dependence of the excitation cross sections of some spectral lines of argon and potassium on the energy of incident electrons is determined. Measurements of potassium were carried out by photometric—as well as by photometric methods. Only photographic methods were used on argon. In the diagrams of figures 1 and 2 the excitation curves for both elements for two lines each are shown. Further, the dependence of the excitation cross sections for both elements on the energy of incident electrons for one line each of both elements is shown by the diagrams of figures 3 and 4. According to other papers the electron figuration — altogether nine lines before and after the transition—are then compiled; with respect to the method of measurement of the cross sections of the lines, the paper of S. E. Frish (Ref 6) is referred to.

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

The Effective Cross Sections of the Excitation of SOV/48-23-8-8/25 Some Spectral Lines of Potassium and Argon

There are 4 figures and 6 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy gos. universitet im. N. V. Lomonosova, Fizicheskiy fakul'tet (Moscow State University imeni M. V. Lomonosov,

Physics Department)

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

ACCESSION NEL: AR4039970

s/0299/6ly/000/009/0005/0005

Source Ref. Eh. Piol. Sv. t., Abs. 5028

B

AUTHOR: Rozhkov, A. S.; Verzhutskiy, B. N.; Byalaya, I. V.; Volkova, L. M.

TITLE. A study of relationships between phenological phenomena in East Siboria. Report I. Kyrmenskaya valley (Bayandayevskiy rayon of Irkutsk oblast!), May-June 1960

CITED SOURCE: Biol. Vost.-Sib. fenol. komis., vyup. 2-3, 1963, 42-46

TOPIC TAGS: East Siberia, phonology

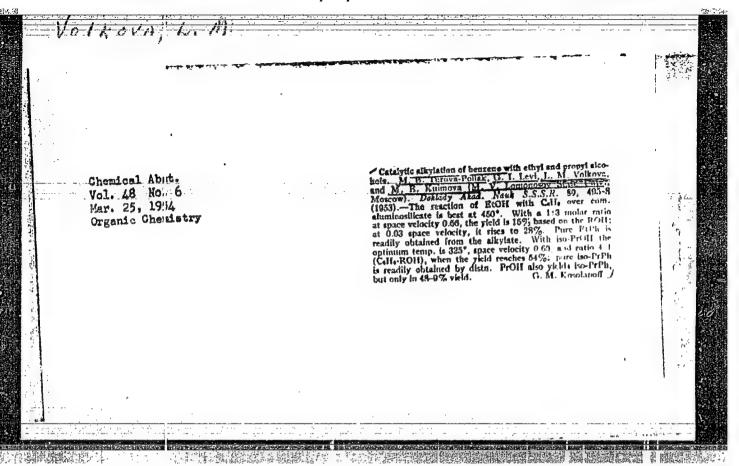
TRANSLATION: A study of relationships between phenological dates in a seasonal rhythm enables the finding of indicators of important moments in plant and animal life which are difficult to record and facilitates the adoption of timely preventive measures against harmful insects.

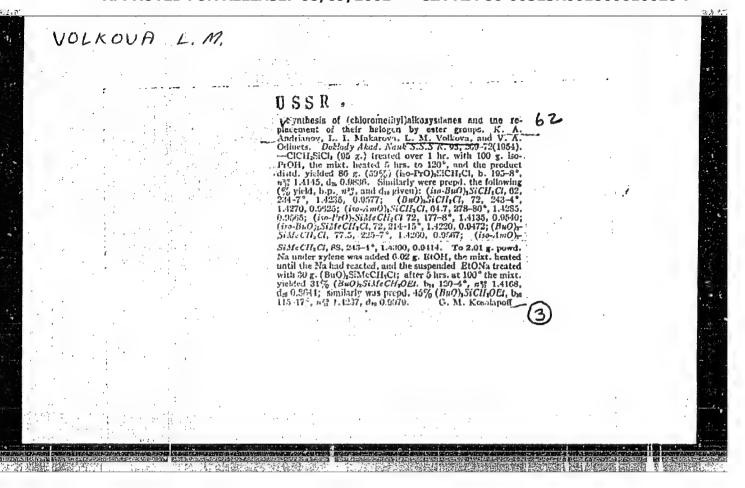
SUB CODE: L3

ENCL: 00

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"





VOLKOVA, L.M.

USSR/Chemistry - Synthesis

card 1/1 : Pub. 22 - 17/44

Authors Andrianov, K. A. Memb. corresp. of the Acad. of Sc. USSR, and

Volkova, L. M.

Title : Synthesis of phenylaminomethylalkoxysilenes

Periodical : Dok. AN SSSR 98/1, 67-70, Sep 1, 1954

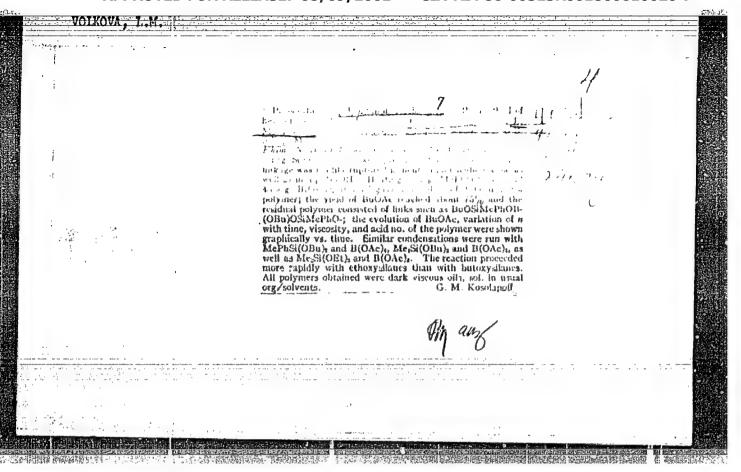
Abstract : The reaction of C1 substitution in alpha-chloromethylmethyldial-koxysilanes by the amino group during the reaction of aniline and ethylaniline with silane was investigated. The factors leading to the formation of phenylaminomethylalkoxysilanes during the reaction between chloromethylmethyldialkoxysilanes and aniline or ethyl aniline, are explained. The synthesis of ten hitherto unknown phenylaminomethylmethyldialkoxysilanes and their physico-

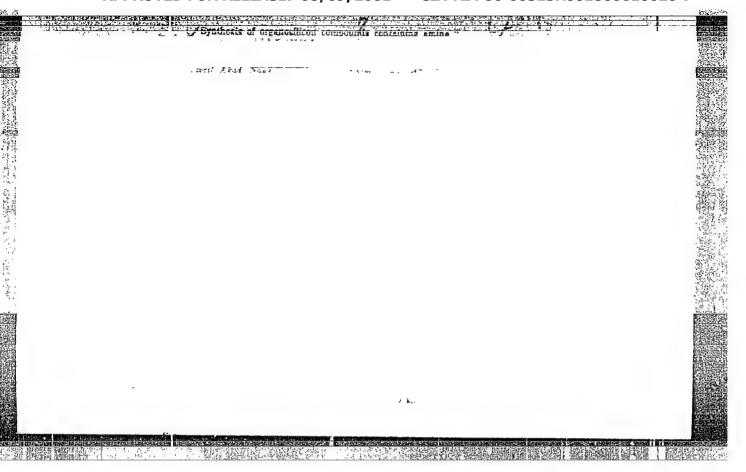
chemical properties are described. Three references: 2-USA and

1_USSR (1945-1952). Table.

Institution :

Submitted : May 14, 1954





507/62-58-8-5/22 Andrianov, K. A., Volkova, L. M.

The Synthesis and Investigation of the Properties of Liquid AUTHORS: TITLE:

1-n-Hexamethyl (Polyphenyl-Aminomethyl-Methyl)Siloxane (Sinter i issledovaniye svoystv zhidkiku i-n-geksametil

(polifenilamincmetilmetil)siloksanov)

Izvestiya Akademii nauk SSSR, Otdeleniye khimioheskikh nauk, PERIODICAL:

1958, Mr 8, pp. 941-948 (USSR)

There have been little publications on organc-silicon liquid polymers with polar groups in the organic radical. In the intro-ABSTRACT:

duction the authors mention various papers (Refs 1-6) dealing with these problems. The synthesis of liquid polyorganosiloxanes with amino nitrogen in the organic radical at the silicon atom is not only of theoretical interest but has also practical value (the production of polymer liquids of valuable technical properties). In the present paper the authors describe the production of organosilicon liquid polymers (of the degree of polymerization n=1,2,3) with trimethylsiloxy end groups by

means of the common hydrolysis (co-hydrolysis) of trimethyl ethoxysilane and substituted aminomethylmethyl diethoxysilanes.

The activation energy of the viscous flow was determined and it

Card 1/2

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The second secon

SOV/62-58-8-5/22 The Synthesis and Investigation of the Properties of Liquid 1-a-Hexazethyl (Polyphenyl-Aminomethyl-Methyl)Siloxane

> was found that this activation energy depends on the structure of the group introduced into the radical. The groups investigated are (arranged according to their decreasing activation energy): ClC6H_NH > C6H5NH > C6H5C2H5N > (C2H5)2N. There are 4 figures, 1 table, and 7 references, 1 of which is Soviet. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR

ASSOCIATION:

(Institut of Elemental-Organic Compounds, AS USSR)

SUBMITTED: January 28, 1957

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7" VOLKOVA, L. H.

L. M. Volkova, K. A. Andrianov, G. Ye. Golubkov, L. N. Makarova, and V. A. Odinets, "The Introduction of Polar Groups into Organic Radical at the Silicon Atom."

Report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1958.

Zhurnal Prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

5(3) AUTHORS:

Andrianov, K. A., /Volkova, L. M.

SOV/62-59-2-15/40

TITLE:

On the Reaction of α -Chloro-methyl Ethoxy-silanes with Amines (O reaktsii α -khlormetiletoksisilanov s aminami)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 278-282 (USSR)

ABSTRACT:

In the present paper the relative reactivity of chlorine in α -chloro-methyl ethoxy-silanes with various amines was investigated. In contrast with the data hitherto published it was found that chlorine in chloro-methyl ethoxy-silanes is substituted by various amines of the aliphatic and aromatic series at 20°. When ethyl amine is acting on α -chloro-methyl-dimethyl ethoxy-silane and α -chloro-methyl-methyl diethoxy-silane, and aniline on α -chloro-methyl-methyl diethoxy-silane, at 20°, accordingly, ethyl-amino methyl diethoxy-silane (55%), ethyl-amino methyl-methyl diethoxy-silane (56%) and phenyl-amino methyl-methyl diethoxy-silane (56%) and phenyl-amino methyl-methyl diethoxy-silane (13.5%), as well as hydrochloric acid, ethyl-amine and aniline were obtained. The first two compounds are new. It was found that the reaction of amines with α -chloro-methyl ethoxy-silanes at 20° proceeds with dif-

Card 1/2

SOV/62-59-2-15/40 On the Reaction of α -Chloro-methyl Ethoxy-silanes With Amines

> ferent velocity, according to the nature of the amine. As to their reactivity the amines investigated rank in the following

 $_{\rm HOC_2H_4NH_2}$ > $_{\rm CH_3}$ $_{\rm 3}$ $_{\rm Sioc_2H_4NH_2}$ > $_{\rm C_2H_5NH_2}$ > $_{\rm C_2H_5}$ $_{\rm 2NH}$ > $_{\rm C_6H_5NH_2}$ > $> (c_2H_5)(c_6H_5)$ ин.

As to their reaction rate with amines the α -chloro-methyl ethoxy-silanes rank in the following order:

C1CH₂(CH₃)₂SiOC₂H₅> C1CH₂CH₃Si(OC₂H₅)₂> C1CH₂Si(OC₂H₅)₃. There are 3 figures and 7 references, 4 of which are Soviet. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR ASSOCIATION: (Institute of Elemental-Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: May 23, 1957

Card 2/2

CIA-RDP86-00513R001860610020-7

TERENT'YEV, A.P.; GRACHEVA, R.A.; PREOBRAZHENSKAYA, N.N.; VOLKOVA, L.M.

Synthesis of furan analogs of tobacco alkaloids based on chalcones. Zhur.ob.khim. 33 no.12:4006-4011 D 63. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ANDRIANOV, K.A.; VOLKOVA, L.M.; TALANOV, V.N.

Ammonolysis reaction of ϕ/ω -dichlorodimethylsiloxane. Izv. AN SSSR. Ser. khim. no.11:2045-2047 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

WT(m)/EPF(c)/ENP(j)/T Pc-li/Pr-li ASD(m)-3/AFETR \$/0190/64/006/009/1662/1667 AP4045433 ACCESSION HEL Andrianov, K. A.; Volkova, Lora H. AUTHORI Catalytic polymerization of dicyclic dimethylsiloxanes TITLE SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 9, 1964, 1662-1667 TOPIC TAGS: silicone, siloxane, dimethylsiloxane, polysiloxane, dicyclic polysiloxane ABSTRACT: A study has been conducted of the synthesis of branched polyorganodimethylsiloxanes containing silsesquioxane groups at regular intervals in the backbone by catalytic polymerization of dicyclic dimethylsiloxene oligomers. Oligomers of the formula 81 (CH₃): (C11.): Si SI (CII) $51 - 0 - (510)_n - 510$ (CITA) SIC SI (CII.) (CH.). Si Card 1/3

"APPROVED FOR RELEASE: 08/09/2001 CIA

CIA-RDP86-00513R001860610020-7

M 11/161-65 ACCESSION NR: AP4045433

1)

containing a large number (n) of dimethylsiloxane units between the rings (n = 13, 32, 66, 145, 170, 198, 224, or 270) were prepared by condensation of a, w-dihydroxypolydimethylsiloxanes with heptamethylchlorocyclotetrasiloxane. Study of the polymerization of these oligomers revealed that in the presence of KOH they polymerize much more readily than octamethylcyclotetrasiloxane. A kinetic study of the polymerization at 70C in the presence of 0.5% KOH catalyst showed that with increasing n, the reaction rate and degree of cross linking decrease. All the polymers were transparent products which swelled readily in benzene and toluene. Polymers with n = 12 or 66 were brittle gels; those with n = 170 or over were very elastic materials. A thermomechanical study showed that the polymers differ considerably from linear polydimethylsiloxanes their glass-transition temperature, is -90C, as compared to -58C for the polydimethylsiloxanes. Studies are being conducted to explain this sharp difference. Orig. art. has: 4-formulas-and 5-figures.

Cord 2/3

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ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)						gii logy)					
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	Card 3/3										

VOLKOVA, Lora M.; ANDRIANOV, K.A.; OBUSHEVA, M.S.

Bicyclic dimethylsiloxane oligomers. Izv. AN SSSR. Ser. khim. no.ll:1986-1989 N '63. (MIRA 17:1)

l. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni $M_{\bullet}V_{\bullet}$ Lomonosova.

VOLKOVA, E.M.; DEVYATOV, A.M.

Determining the effective excitation cross sections of resonance lines of potassium atoms. Izv. AN SSSR. Ser. fiz. 27 no.8:1052-(MIRA 16:10)

1. Kafedra elektroniki Fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

Synthesis and spectra of trinethylalkyl-(phenyl, chl. ro-1-cat- 2,6-disilacyclohexanos, Bokl. AN \$558 165 no.6:1307-131 (1964 18:	2. j
1. Institut elementoorganicheskikh soyedinaniy all S. A.	

EPF(n)-2/EWP(q)/EWT(m)/BDS AFFTC/ASD/SSD Pu-li WW/JD/JG L 181h7-63 s/0048/63/027/008/1052/1055	66	0
ACCESSION NR: AP(1004499		
AUTHOR: Volkova, 1. M.; Devyatov, A. M.		
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SOURCE: AN SSSR, Izvestiya, ser.fiz.,v.27, no.8, 1963, 1052-1055		
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TOPIC TAGS: excitation tross been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date there have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRACT: To date the have been only two experimental studies (Loveridge quo ABSTRA	ted 939)	
ABSTRACT: To date there have been only two experimental studies (Lovellage 64,1 by R.B. Brode, Rays. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,664,1 by R.B. Brode, Rays. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,664,1 by R.B. Brode, Rays. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,664,1	0.1,	N. C.
ABSTRACT: To date there have 1, 25,257, and V.A. Fabrikant, Doklady AN SSSR, 25,050, by R.B. Brode, Revs. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,050, by R.B. Brode, Revs. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,050, by R.B. Brode, Revs. Mod. Phys., 5,257, and V.A. Fabrikant, Doklady AN SSSR, 25,050, and One theoretical investigation (R.Damburg and V.Kravchenko, Izv. AN LatvSSR, Name and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and One theoretical investigation of the excitation cross sections for the resonant and the production of the excitation cross sections for the resonan	ce	
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13,1960) devoted to evaluate the experimental results disagree, possibly because lines of potassium. The experimental results disagree, possibly because lines of potassium. The authors used the photographic photographic to take into account absorption. The authors used the photographic photographic to take into account absorption. The authors and values of the organizations for the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique try technique to determine the lines of the resonance doublet of K (7665 and 765 try technique try technique try technique try	c1-	
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1. 181L7-63 ACCESSION NR: AP3004499 pressure of 2 x 10-6 mm Hg. The values arrived at for the excitation cross sections are q at 10 eV = 0.85 and q_{max} = 0.90 for the 7665 % line $(4^2S_1/2-4^2P_3/2 \text{ transition})$, and q_{10} eV = 0.40 and q_{max} = 0.42 for the 7698 % line $(4^21/2-4^2P_1/2 \text{ transition})$ tion). The energy dependence of q is shown in Fig.l of the enclosure. The relative error in the above values is estimated to be 35%. The sum of the cross sections agrees reasonably well with the results of Fabrikant and the theoretical calculations of Damburg and Kravchenko; it also agrees with the authors' calculations by means of a Born approximation formula adduced by L.A. Vaynshteyn (Optika i spektroskopiya, 11, 301, 1961). Orig.art.has: 7 formulas, 5 figures and 1 table. ASSOCIATION: Kafedra elektroniki Fizicheskogo fakul'teta Hoskovskogo gos.unifersiteta im.M.V.Lononosova (Chair of Electronics, Dept. of Physics, Moscow State Univ.) ENCL: 01 DATE ACQ: 26Aug63 SUBMITTED: 00 OTHER: 002 NO REF SOV: 004 SUB CODE: PH

Card 2/82

the are	Determination of the effective excitation cross sections of the arc lines of potassium. Opt. i spektr. 13 no.6:849-851 D 162.					
	(Potassium-Spectra)	(Quantum theory)				
	;					
		· ·				
			,			

Adsorption of racemic and (+) -isomers of 2-butanol on stereospecific silica gels. Izv.AN SSSR.Otd.khim.nauk no.2: (MTRA 16:4)

1. Institut organicheskoy khimii im. M.D.Zelinskogo AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Butanol) (Adsorption) (Silica)

ANDRIANOV, K.A.; VOLKOVA, L.M.; CHUMAYEVSKIY, N.A.

Vibrational spectra of organic compounds containing the elements of the IV group (Si, Ge, Sn). Report No.7: Infrared absorption spectra of substituted aminomethylsiloxanes and the frequencies H bond stretching vibrations. Izv.AN SSSR. Otd.khim.nauk (MIRA 15:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Silomanes—Spectra) (Hydrogen bonding)

S/062/63/000/002/013/020 B144/B186

AUTHORS: Andrianov, K. A., Volkova, Lora M., and Tartakovskaya, L. M.

TITLE: Synthesis of dimethyl cyclosiloxanes containing functional

groups in the ring

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 2, 1963, 294 - 298

TEXT: Dimethyl cyclosiloxanes with a functional group at the Si atom were synthesized by quantitative decomposition of dibasic sodium salts of a, a-dioxy-methyl siloxanes with methyl trichlorosilane (I) or methyl-butoxy-dichlorosilane (II). The dimethyl cyclosiloxanes obtained differed in the numbers of Si and O atoms in their rings and were separated by fractionation. Reacting 1,5-disodium-oxy-hexamethyl trisiloxane with I yielded heptamethyl chloro-cyclotetrasiloxane (b.p. 85.5 - 86.5°C, yield 15%), pentamethyl-chloro-cyclotetrasiloxane (b.p. 47 - 50°C, d²⁰1.0265, n²⁰ 1.4050, yield 2.6%), and nonamethyl-chloro-cyclopentasiloxane (III) (b.p. 129 - 132°C, d²⁰1.0410, n²⁰ 1.4083, yield 7.8%). Reacting it with II yielded heptamethyl-butoxy-cyclotetrasiloxane (b.p. 94 - 96°C, yield 13.9%), Card 1/2

S/062/63/000/C02/013/020 . B144/B186

Synthesis of dimethyl...

pentamethyl-butoxy-cyclotrisiloxane (b.p. 67 - 71°C, d_4^{20} 0.9653, n_D^{20} 1.4044, yield 2.1%), nonamethyl-butoxy-cyclopentasiloxane (b.p. 134 - 137°C, d_4^{20} 0.9797, n_D^{20} 1.4110, yield 4.8%), and undecamethyl-butoxy-cyclohexasiloxane (b.p. 200.5 - 205.5°C, d_4^{20} 0.9857, n_D^{20} 1.4155, yield 5.4%). All these compounds dissolved readily in benzene, toluene, acetone and ethyl ether. Their structure was derived from the IR spectra. Substituting NH₂ for the Cl group in III gave nonamethyl-amino-cyclopentasiloxane (b.p. 134 - 137°C, d_4^{20} 1.0160, n_D^{20} 1.4115, yield 32.2%). There are 1 figure and 1 table.

ASSOCIATION: Institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: May 21, 1962

Card 2/2

ANDRIANOV, X.A.; VOLKOVA, Lora H.; TARTAKOVSKAYA, L.M.

Synthesis of dimethylcyclosiloxanes containing functional groups in a cycle. Izv.AN SSSR.Otd.khim.nauk no.2:294-298
F '63. (MIRA 16:4)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Siloxanes)

s/051/62/013/006/011/027 E032/E314

Volkova, L.M. AUTHOR:

Determination of the effective excitation cross-

sections for the arc lines of potassium TITLE:

Optika i spektroskopiya, v. 15, no. 6, 1962, PERIODICAL: 849 - 850

These cross-sections were determined by comparing the intensities of the lines with the continuous spectrum of a tungsten strip lamp (N-8-200 (SI-8-200). The experimental apparatus has been described in a previous paper (the author, Opt. i spektr., 6, 273, 1959). The cross-sections were calculated from the formula

(1) mak, sDI1t2

where d is the diameter of the beam of the excited gas in cm, where α is the diameter of the beam of the excited gas in cm, 2 k_{λ} - the spectral luminance of the tungsten lamp in erg/sec.sterad.cm, Card 1/3

Determination of

S/051/62/013/006/011/027 E032/E314

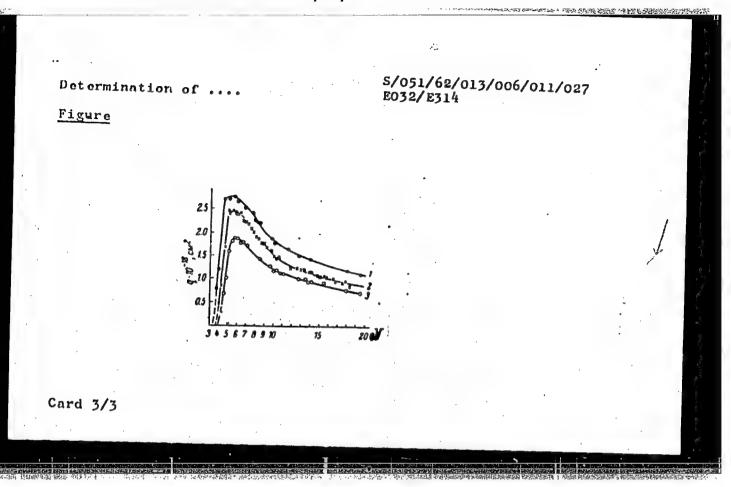
s-spectrograph slit width in cm, D-the linear dispersion of the spectrograph in cm/cm, n-the concentration of potassium atoms in the ground state in cm $^{-2}$, i-electron current at the receiver in A, e-electronic charge in coulombs, F_2 , F_1 -focal

lengths of the chamber and collimator lenses of the spectrograph in cm, I_1 , I_2 are the intensities of the potassium and tungstenlamp spectra and t_1 , t_2 —the corresponding exposure times in sec.

The maximum possible error in the cross-sections is estimated as 35% and the numerical values for this quantity are tabulated for 19 potassium lines between 4863.66 and 5831.67 Å at an electron-excitation beam energy of 5 eV. The variation in the excitation cross-section with energy for the 6938.89 Å, 5801.86 Å and 5339.9 Å lines is shown in the figure (the ordinates of curve 1 should be multiplied by 6 to obtain the correct scale). There are 1 figure and 1 table.

SUBMITTED: November 18, 1961

Card 2/3



S/062/62/000/011/004/021 B101/B144

AUTHORS: Andrianov, K. A., Volkova, L. M., and Chumayevskiy, N. A.

TITLE: Vibration spectra of organic compounds containing elements of group IV (Si, Ge, Sn). Communication 7. Infrared absorption spectra of substituted amino-methyl siloxanes and attretching vibration frequencies of C-H bonds

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 11, 1962, 1958 - 1964

TEXT: The IR absorption spectra of the following compounds were studied: $C_{6H_5}NHCH_2(CH_3)Si(OC_2H_5)_2$, b.p. 130 - 132°C/5 mm Hg, n_D^{2O} 1.4975; $C_{6H_5}NHCH_2(CH_3)_2SiOC_2H_5$, b.p. 140 - 144°C/20 mm Hg, n_D^{2O} 1.5111; $C_{6H_5}NHCH_2(CH_3)_2SiOSi(C_2H_5)_3$, b.p. 109 - 109.5°C/0.5 mm Hg, d_4^{2O} 0.9402, n_D^{2O} 1.4927; $(C_2H_5)_3SiOSi(CH_3)(CH_2NHC_6H_5)OSi(C_2H_5)_3$, b.p. 159 - 161°C/1 mmHg, d_4^{2O} 0.9514, n_D^{2O} 1.4819; $(C_2H_5)_3SiOSi(CH_3)[CH_2N(C_2H_5)_2]OSi(C_2H_5)_3$, Card 1/3

Vibration spectra of organic ...

5/062/62/000/011/004/021 B101/B144

frequencies of Si-0-Si, Si-0-C, Si-CH₃, Si-C₂H₅, and Si-C bonds. In the present paper the frequencies of the C-H bonds in the Si-CH₃ and Si-C₂H₅ groups were identified, using data from the earlier paper. The following interpretation of frequencies is suggested: $v_s(\text{CH}_2)$ 2870 - 2880 cm⁻¹; $v_s(\text{CH}_2)$ 2925 - 2940 cm⁻¹; $v_s(\text{CH}_3)$ 2900 - 2910 cm⁻¹, and $v_s(\text{CH}_3)$ 2956 - 2970 cm⁻¹. There are 4 figures and 4 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

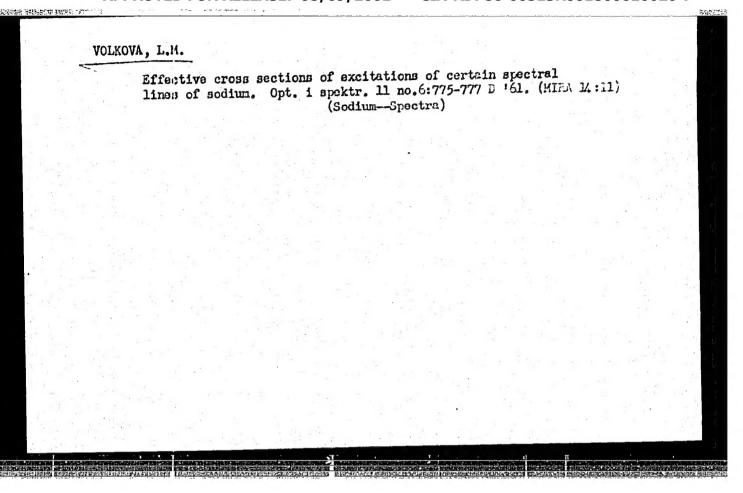
SUBMITTED: March 23, 1962

Card 3/3

ANDRIANOV, K.A.; VOLKOVA, Lora, M.; SOKOLOVA, N.V. Synthesis and polymerization of ∞ - and β -cyano derivatives of dimethylcyclosiloxanes. Vysokom.soed. 4 no.3:403-408

(MIRA 15:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lemonosova. (Siloxanes)



ANDRIANOV, K.A.; VOLKOVA, L.M.

Reactions of amines with bis-(chloromethyl)-tetramethyldisiloxane and its derivatives. Izv. IN SSSR Otd.khim.nauk no.1:87-96 Ja '62. (MIRA 15:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Amines) (Silicon organic compounds)

ANDRIANCY, K.A.; VOLKOVA, Lora M.

Synthesis and polymerization of heptamethylalkoxycyclotetrasiloxanes. Vysokom.soed. 3 no.10:1580-1583 0 '61. (MIRA 14:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Cyclotetrasilcxane)

TERENT'YEV, A.P.; GRACHEVA, R.A.; VOLKOVA, L.M.

Synthesis of substituted pyrrolidinecarboxylic acids via furan derivatives. Dokl. AN SSSR 140 no.3:610-613 S'61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. Chlen-korrespondent AN SSSR (for Terent'yev).

(Pyrrolidinecarboxylic acid) (Furan)